ELSEVIER

Journal of Materials Processing Technology 95 (1999) 275

Journal of Materials Processing Technology

www.elsevier.com/locate/jmatprotec

Author Index of Volume 95

Ainsley, C., 201
Altan, T., 17
Arauco, E.S., 139

Bay, N., 40
Besshi, T., 133
Bhattacharyya, B., 145
Brøndsted, P., 40

Cartwright, D., 49
Ceretti, E., 17
Chang, C.C., 128
Chi-hang Lui, O., 191
Chou, S.-S., 65
Choudhury, I.A., 30
Chung Wang, C., 222
Cortés, C., 122
Cui, P.L., 232

Doloi, B.N., 145
Drake, P.R., 49

El-Baradie, M.A., 30
Elgueta, M., 122

Fedotov, V.P., 55

Gilormini, P., 216
Godwin, M.J., 49
Gong, H., 201
Gorshkov, A.V., 55
Grønbæk, J., 40
Guangchun, W., 112
Gunaraj, V., 246
Guoqun, Z., 112

Hatta, N., 116
Hou, J.J., 232
Hwa Yan, B., 222

Im, C.S., 155
Im, Y.T., 262

Jang, J.L., 78
Jehng, W.-K., 169
José Montecinos, R., 139
Joun, M.S., 155

Kim, H.S., 262
Kim, J.H., 155
Ko, B.-C., 210
Kolmogorov, V.L., 55

Lee, M.C., 155
Li, H.J., 232
Liu, J.-M., 65
Lu, P.C., 128
Lucchi, M., 17

Mahdi, M., 238
Matsuoka, S.-i., 83
Mischke, J., 97
Mori, K., 116
Mot, A.C.K., 191
Murugan, N., 246

Nefussi, G., 216
Nian, C.Y., 90

Oh, H.-K., 8, 10
Oki, Y., 83

Park, G.-S., 210
Persson, U., 107
Pietrzykowski, A., 97
Proslier, L., 216

Qi, L.H., 232
Qichang, R., 180

Świątoniowski, A., 97
Sato, T., 133
Shimizu, K., 83
Skov-Hansen, P., 40
Sobkowiak, P., 97
Sorkhel, S.K., 145
Srinivasan, K., 185
Suh, S.R., 155

Takuda, H., 116
Tam, H.y., 191
Tarng, Y.S., 78, 90
Tsai, Y.-C., 169
Tso, P.-L., 1
Tsutsui, I., 133

Venugopal, P., 185

Wang, G., 27
Wang, J., 164
Wong, W.C.K., 164
Wu, S.-H., 1

Yamazaki, N., 83
Yang, W.H., 90
Yeon, K.-H., 10
Yoneyama, T., 71
Yoo, Y.-C., 210
Yun Kim, H., 10

Zhang, L.C., 238
Zhao, W., 27
Zhenlin, L., 180
Zhihao, J., 180

Elsevier Science S.A.
PII: S0924-0136(99)00388-X

ELSEVIER

Journal of Materials Processing Technology 95 (1999) 277–280

Journal of Materials Processing Technology

www.elsevier.com/locate/jmatprotec

Subject Index of Volume 95

Adiabatic heating
Hardness–stress–strain correlation in titanium open die extrusion: an alternative to visioplasticity, 185
Advanced ceramics
Experimental investigations into electrochemical discharge machining (ECDM) of non-conductive ceramic materials, 145
Air relative humidity
The influence of atmospheric humidity on the friction and wear of carbon steels, 10
Aluminum alloy
High-speed end milling of an articulated robot and its characteristics, 83
Analysis of variance
Optimization of turning operations with multiple performance characteristics, 90
Annealing effect
The effect of annealing on improving the quality of lead zirconate titanate thin films on $Pt/SiO_2/Si$ substrates, 128
Applied voltage
Experimental investigations into electrochemical discharge machining (ECDM) of non-conductive ceramic materials, 145
Arc current
Prediction and comparison of the area of the heat-affected zone for the bead-on-plate and bead-on-joint in submerged arc welding of pipes, 246
Arc voltage
Prediction and comparison of the area of the heat-affected zone for the bead-on-plate and bead-on-joint in submerged arc welding of pipes, 246
Articulated robot
High-speed end milling of an articulated robot and its characteristics, 83
Automatic computer simulation
Computer aided process design in cold-former forging using a forging simulator and a commercial CAD software, 155
Automotive
A method for comparing the performance of low-cost press tools for sheet forming, 49

Bead-on-plate
Prediction and comparison of the area of the heat-affected zone for the bead-on-plate and bead-on-joint in submerged arc welding of pipes, 246
Beinite
The control of the chemical composition, microstructure and mechanical properties of beinite ductile iron for liner plates, 27
BP network
research on prediction of the processing parameters of liquid extrusion by bp network, 232
Brown gas
Some comments on implosion and Brown gas, 8

Carbon concentration
The influence of atmospheric humidity on the friction and wear of carbon steels, 10
Chemical composition
The control of the chemical composition, microstructure and mechanical properties of beinite ductile iron for liner plates, 27
Chip formation
FEM simulation of orthogonal cutting: serrated chip formation, 17
Chip-volume
Analysis of grinding quantities through chip sizes, 1
Cold forging
an expert system for cold forging process design based on a depth-first search, 262
Fatigue in cold-forging dies: tool life analysis, 40
Cold-former forging
Computer aided process design in cold-former forging using a forging simulator and a commercial CAD software, 155
Cold-roll forming
Simulation of the cold-roll forming of circular tubes, 216
Commercially pure titanium
Study on the microstructure and formability of commercially pure titanium in two-temperature deep drawing, 65
Container
Development of a new pressure sensor and its application to the measurement of contacting stress in extrusion, 71
Coons patch
Simulation of the cold-roll forming of circular tubes, 216
Copper tubes
An investigation into the rolling process of copper tubes, 139
Corrosion–abrasion wear resistance
An investigation of the corrosion–abrasion wear behavior of 6% chromium martensitic cast steel, 180
Coupling effect
residual stresses in ground components caused by coupled thermal and mechanical plastic deformation, 238
Critical strain
The effects of SiC particle volume fraction on the microstructure and hot workability of SiCp/AA 2024 composites, 210
Cutting force
High-speed end milling of an articulated robot and its characteristics, 83
Optimization of turning operations with multiple performance characteristics, 90
Cutting speed
Optimization of turning operations with multiple performance characteristics, 90
Cutting tool
A study of the active vibration control of a cutting tool, 78
Cutting
FEM simulation of orthogonal cutting: serrated chip formation, 17

Elsevier Science S.A.
PII: S0924-0136(99)00387-8

Damage
Application of continuum damage theory in metalforming processes, 122
FEM simulation of orthogonal cutting: serrated chip formation, 17
Damping force
A study of the active vibration control of a cutting tool, 78
Deformation analysis
A three-dimensional rigid–plastic FEM analysis of rotary forging deformation of a ring workpiece, 112
Depth of cut
Optimization of turning operations with multiple performance characteristics, 90
Depth-first search
an expert system for cold forging process design based on a depth-first search, 262
Detail process design
Computer aided process design in cold-former forging using a forging simulator and a commercial CAD software, 155
Ductile fracture criteria
The application of some criteria for ductile fracture to the prediction of the forming limit of sheet metals, 116
Dynamic recrystallization
The effects of SiC particle volume fraction on the microstructure and hot workability of SiCp/AA 2024 composites, 210

EDM
The machining characteristics of Al_2O_3/6061Al composite using rotary electro-discharge machining with a tube electrode, 222
EDM-drilling
The machining characteristics of Al_2O_3/6061Al composite using rotary electro-discharge machining with a tube electrode, 222
Electrochemical discharge machining (ECDM)
Experimental investigations into electrochemical discharge machining (ECDM) of non-conductive ceramic materials, 145
Electrode wear rate
The machining characteristics of Al_2O_3/6061Al composite using rotary electro-discharge machining with a tube electrode, 222
Electrolyte concentration
Experimental investigations into electrochemical discharge machining (ECDM) of non-conductive ceramic materials, 145
Expert system
an expert system for cold forging process design based on a depth-first search, 262
Extrusion
Development of a new pressure sensor and its application to the measurement of contacting stress in extrusion, 71

π-Far infrared rays
Some comments on implosion and Brown gas, 8
Fatigue
Fatigue in cold-forging dies: tool life analysis, 40
Feed rate
Optimization of turning operations with multiple performance characteristics, 90
FEM
A three-dimensional rigid–plastic FEM analysis of rotary forging deformation of a ring workpiece, 112
The application of some criteria for ductile fracture to the prediction of the forming limit of sheet metals, 116
Fibre
A fibre-optic surface-roughness sensor, 107
Finite element simulation
Application of continuum damage theory in metalforming processes, 122
An investigation into the rolling process of copper tubes, 139
Finite-element method
FEM simulation of orthogonal cutting: serrated chip formation, 17
Flow strain
The effects of SiC particle volume fraction on the microstructure and hot workability of SiCp/AA 2024 composites, 210
Flow stress
The effects of SiC particle volume fraction on the microstructure and hot workability of SiCp/AA 2024 composites, 210
Forces on the tool material contact surface
Contributory study on error estimation in measurements of stress distributions on the contact surface for plastically deformed metal, 97
Formability
A method for comparing the performance of low-cost press tools for sheet forming, 49
Forming limit
The application of some criteria for ductile fracture to the prediction of the forming limit of sheet metals, 116
Free-form surface
robotic polishing of free-form surfaces using scanning paths, 191
Friction
Development of a new pressure sensor and its application to the measurement of contacting stress in extrusion, 71
FWHM
The effect of annealing on improving the quality of lead zirconate titanate thin films on Pt/SiO_2/Si substrates, 128

Gear set with skew axes
Rapid prototyping and manufacturing technology applied to the forming of spherical gear sets with skew axes, 169
Green machining
Machining of alumina green bodies and their dewaxing, 133
Grinding chips
Analysis of grinding quantities through chip sizes, 1
Grinding
residual stresses in ground components caused by coupled thermal and mechanical plastic deformation, 238
Groove-cutting test
Machining of alumina green bodies and their dewaxing, 133

HAZ
Prediction and comparison of the area of the heat-affected zone for the bead-on-plate and bead-on-joint in submerged arc welding of pipes, 246
Heat input
Prediction and comparison of the area of the heat-affected zone for the bead-on-plate and bead-on-joint in submerged arc welding of pipes, 246
Heterogeneous deformation
Hardness–stress–strain correlation in titanium open die extrusion: an alternative to visioplasticity, 185
High-speed end milling
High-speed end milling of an articulated robot and its characteristics, 83
Hot restoration
The effects of SiC particle volume fraction on the microstructure and hot workability of SiCp/AA 2024 composites, 210

Implosion
Some comments on implosion and Brown gas, 8
Inconel 718
Machinability assessment of inconel 718 by factorial design of experiment coupled with response surface methodology, 30
Injection moulding
Precision sintering of slip cast components, 201
Instantaneous skew axis (ISA)
Rapid prototyping and manufacturing technology applied to the forming of spherical gear sets with skew axes, 169

Laser cutting
CO_2 laser cutting of metallic coated sheet steels, 164
Life analysis
Fatigue in cold-forging dies: tool life analysis, 40
Light scattering
A fibre-optic surface-roughness sensor, 107
Linear plates
The control of the chemical composition, microstructure and mechanical properties of beinite ductile iron for liner plates, 27
Liquid extrusion
research on prediction of the processing parameters of liquid extrusion by bp network, 232
Loose abrasive
robotic polishing of free-form surfaces using scanning paths, 191

Machined surface
A fibre-optic surface-roughness sensor, 107
Martensitic cast steel
An investigation of the corrosion–abrasion wear behavior of 6% chromium martensitic cast steel, 180
Material removal rate
The machining characteristics of Al_2O_3/6061Al composite using rotary electro-discharge machining with a tube electrode, 222
Materials
Fatigue in cold-forging dies: tool life analysis, 40
Measurement
Development of a new pressure sensor and its application to the measurement of contacting stress in extrusion, 71
Mechanical loading
residual stresses in ground components caused by coupled thermal and mechanical plastic deformation, 238
Mechanical properties
Prediction and comparison of the area of the heat-affected zone for the bead-on-plate and bead-on-joint in submerged arc welding of pipes, 246
Metal removal rate (MRR)
Experimental investigations into electrochemical discharge machining (ECDM) of non-conductive ceramic materials, 145
Metalforming
Application of continuum damage theory in metalforming processes, 122
Metallic coated sheet steels
CO_2 laser cutting of metallic coated sheet steels, 164
Micro-structure
Prediction and comparison of the area of the heat-affected zone for the bead-on-plate and bead-on-joint in submerged arc welding of pipes, 246
Mild wear
The influence of atmospheric humidity on the friction and wear of carbon steels, 10

Natural frequency
High-speed end milling of an articulated robot and its characteristics, 83
Nomogram
Hardness–stress–strain correlation in titanium open die extrusion: an alternative to visioplasticity, 185

Open die extrusion
Hardness–stress–strain correlation in titanium open die extrusion: an alternative to visioplasticity, 185
Orthogonal array
Optimization of turning operations with multiple performance characteristics, 90
Oxidation wear
The influence of atmospheric humidity on the friction and wear of carbon steels, 10

Parallelepiped
Three-dimensional analysis of the stress–strain state in the process of plastic deformation of metals, 55
Penetration
Prediction and comparison of the area of the heat-affected zone for the bead-on-plate and bead-on-joint in submerged arc welding of pipes, 246
Perovskite phase
The effect of annealing on improving the quality of lead zirconate titanate thin films on Pt/SiO_2/Si substrates, 128
pH value
An investigation of the corrosion–abrasion wear behavior of 6% chromium martensitic cast steel, 180
Piezoelectric actuator
A study of the active vibration control of a cutting tool, 78
Pin gauges
Contributory study on error estimation in measurements of stress distributions on the contact surface for plastically deformed metal, 97
Plastic deformation
residual stresses in ground components caused by coupled thermal and mechanical plastic deformation, 238
Precision
Precision sintering of slip cast components, 201
Press-forming
A method for comparing the performance of low-cost press tools for sheet forming, 49
Pressure sensor
Development of a new pressure sensor and its application to the measurement of contacting stress in extrusion, 71
Process parameter selection
CO_2 laser cutting of metallic coated sheet steels, 164
Process parameters
research on prediction of the processing parameters of liquid extrusion by bp network, 232
Process sequence design
Computer aided process design in cold-former forging using a forging simulator and a commercial CAD software, 155
Pt/SiO_2/Si substrate
The effect of annealing on improving the quality of lead zirconate titanate thin films on Pt/SiO_2/Si substrates, 128
Punch pressure
Hardness–stress–strain correlation in titanium open die extrusion: an alternative to visioplasticity, 185
PZT
The effect of annealing on improving the quality of lead zirconate titanate thin films on Pt/SiO_2/Si substrates, 128

Rapid prototyping and manufacturing (RP&M)
Rapid prototyping and manufacturing technology applied to the forming of spherical gear sets with skew axes, 169
Rapid tooling
Precision sintering of slip cast components, 201
Regression analysis
Prediction and comparison of the area of the heat-affected zone for the bead-on-plate and bead-on-joint in submerged arc welding of pipes, 246
Residual stresses
residual stresses in ground components caused by coupled thermal and mechanical plastic deformation, 238
Response surface methodology
Machinability assessment of inconel 718 by factorial design of experiment coupled with response surface methodology, 30
Ring workpiece
A three-dimensional rigid–plastic FEM analysis of rotary forging deformation of a ring workpiece, 112

Robotic polishing
robotic polishing of free-form surfaces using scanning paths, 191
Rotary forging
A three-dimensional rigid–plastic FEM analysis of rotary forging deformation of a ring workpiece, 112

SAW
Prediction and comparison of the area of the heat-affected zone for the bead-on-plate and bead-on-joint in submerged arc welding of pipes, 246
Severe wear
The influence of atmospheric humidity on the friction and wear of carbon steels, 10
Shearing test
Machining of alumina green bodies and their dewaxing, 133
Sheet metal forming
The application of some criteria for ductile fracture to the prediction of the forming limit of sheet metals, 116
Sheet metal processing
CO_2 laser cutting of metallic coated sheet steels, 164
Sintering
Precision sintering of slip cast components, 201
Slip casting
Precision sintering of slip cast components, 201
Solid-model
Rapid prototyping and manufacturing technology applied to the forming of spherical gear sets with skew axes, 169
Speed–feed planes
Machinability assessment of inconel 718 by factorial design of experiment coupled with response surface methodology, 30
Steel
A method for comparing the performance of low-cost press tools for sheet forming, 49
Stress–strain state
Three-dimensional analysis of the stress–strain state in the process of plastic deformation of metals, 55
Surface finish
Optimization of turning operations with multiple performance characteristics, 90
Surface roughness
A fibre-optic surface-roughness sensor, 107
robotic polishing of free-form surfaces using scanning paths, 191
The machining characteristics of Al_2O_3/6061Al composite using rotary electro-discharge machining with a tube electrode, 222
Surface waviness
robotic polishing of free-form surfaces using scanning paths, 191

Thermal loading
residual stresses in ground components caused by coupled thermal and mechanical plastic deformation, 238
Thin film
The effect of annealing on improving the quality of lead zirconate titanate thin films on Pt/SiO_2/Si substrates, 128
Three-dimensional printing (3DP)
Rapid prototyping and manufacturing technology applied to the forming of spherical gear sets with skew axes, 169
Tool life
Optimization of turning operations with multiple performance characteristics, 90
Tool path
robotic polishing of free-form surfaces using scanning paths, 191
Tooling
A method for comparing the performance of low-cost press tools for sheet forming, 49
Tools
Fatigue in cold-forging dies: tool life analysis, 40
Tube rolling
An investigation into the rolling process of copper tubes, 139
Two-temperature deep drawing
Study on the microstructure and formability of commercially pure titanium in two-temperature deep drawing, 65

Vibration Control
A study of the active vibration control of a cutting tool, 78
Virtual velocity
Three-dimensional analysis of the stress–strain state in the process of plastic deformation of metals, 55

Weld metal
Prediction and comparison of the area of the heat-affected zone for the bead-on-plate and bead-on-joint in submerged arc welding of pipes, 246
Work-hardening rate
The effects of SiC particle volume fraction on the microstructure and hot workability of SiCp/AA 2024 composites, 210